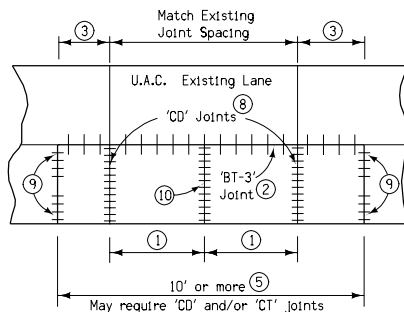
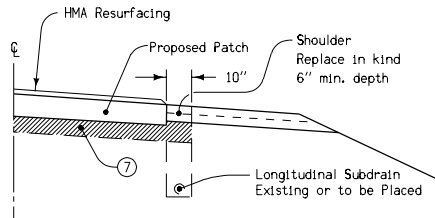


ONE LANE WIDTH PATCH



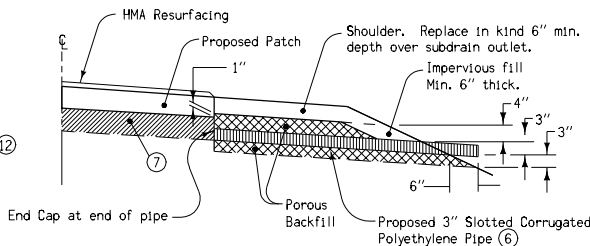
ONE LANE WIDTH PATCH



### GRANULAR SUBBASE AND SUBDRAIN

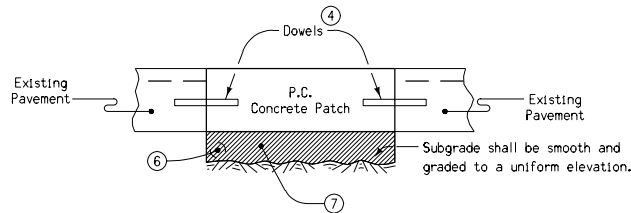
(WHEN REQUIRED BY PLAN)

IF LONGITUDINAL SUBDRAIN IS PRESENT OR IS TO BE PLACED

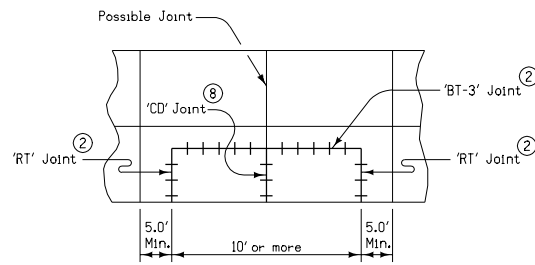


### GRANULAR SUBBASE AND SUBDRAIN

(WHEN REQUIRED BY PLAN)  
WITHOUT LONGITUDINAL SUBDRAIN



### SECTION THRU PATCH



PARTIAL ROADWAY WIDTH PATCH

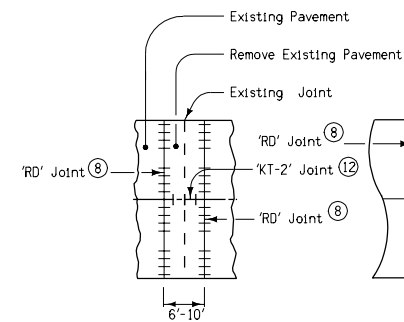
### GENERAL NOTES:

If damage occurs outside of patch locations due to removal operations, the contractor shall be responsible for the cost of repairs.

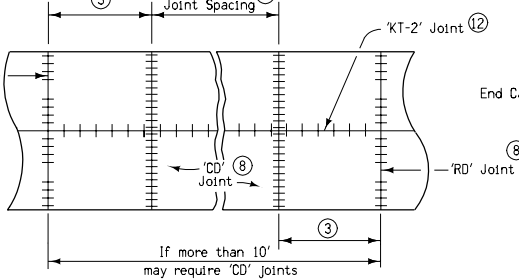
Refer to Standard Road Plans RH-50 and RH-51 for details of joint construction.

All patches shall be rectangular even when existing pavement joints are skewed.

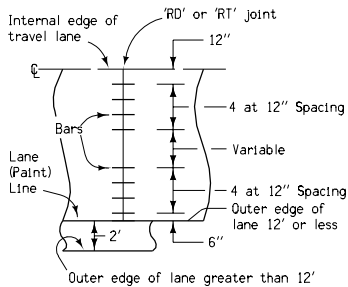
- ① Joint spacing 10 ft. minimum, 20 ft. maximum, 15 ft. optimum.
- ② The joint shall not be sawed nor sealed.
- ③ New 'CD' Joint must be a minimum 5 ft. from the patch end.
- ④ Install dowels approximately mid-depth of existing PCC Pavement.
- ⑤ If one lane patch exceeds 50 ft., both lanes should be considered for patching.
- ⑥ If longitudinal subdrain (shoulder) is not to be placed or if not present on side of roadway to be patched, then place proposed 3 inch slotted corrugated pipe at low end of patch.
- ⑦ 6 inches granular subbase if required by plan. When placed, granular subbase should extend over longitudinal subdrain, if present.
- ⑧ The joint shall be sawed and sealed after patching. Refer to RH-50 for joint details.
- ⑨ If this joint is across from an existing crack or joint, then use 'RD' joint, otherwise use 'RT' joint. 'RT' joints shall not be sawed after patching nor be sealed. Refer to RH-50 for joint details.
- ⑩ Mid panel joint shall be either a 'CT' or a 'CD' joint. If there is no existing joint or crack in the adjacent pavement, place a 'CT' joint. If there is an existing joint or crack in the adjacent pavement, place a 'CD' joint of the same transverse location. 'CT' joints shall be sawed but not sealed.
- ⑪ Full depth saw cut required prior to removal. Place 1/2" preformed joint material between patch and concrete in adjacent lane.
- ⑫ If all lanes are patched at the same time, longitudinal joint will be sawed but not sealed. If patches are placed in stages, see note 2.



FULL ROADWAY WIDTH PATCH



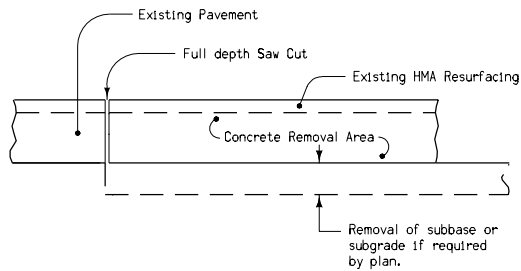
FULL ROADWAY WIDTH PATCH



### DETAIL FOR 'RT' OR 'RD' JOINT BAR SPACING

TYPICAL HALF PLAN

For interior lanes, place first bar 12" from edge of lane (slab).



PAVEMENT REMOVAL DETAILS

BAR SIZE TABLE			
Existing PCC Pavement Thickness	Less than 8"	8" but less than 10"	10" or More
DOWEL SIZE	3/4"	1 1/4"	1 1/2"
TIE BAR SIZE	#6	#10	#11

**Iowa Department of Transportation**  
Highway Division

**STANDARD ROAD PLAN**

**RR-5**

REVISION: NEW; Replaces Detail Sheet 532-5A

REVISION NO.  
New

APPROVED BY: *William J. Allen*  
DESIGN/METHODS ENGINEER

REVISION DATE  
04-30-02

**FULL DEPTH  
P.C. CONCRETE PATCH  
WITH DOWELS  
(EXISTING COMPOSITE PAVEMENT)**